

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051064

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H05K7/02 G02F1/13

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H05K G02F G09F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03, 31 March 1997 (1997-03-31) -& JP 08 313880 A (ROHM CO LTD), 29 November 1996 (1996-11-29) abstract	1-10
A	US 5 568 357 A (KOCHIS GARY ET AL) 22 October 1996 (1996-10-22) abstract; figures 1,6,7 column 5, line 48 - column 6, line 8	1-10
A	DE 34 08 176 A (SIEMENS AG) 19 September 1985 (1985-09-19) the whole document	1-10
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- \*&\* document member of the same patent family

Date of the actual completion of the international search

31 August 2004

Date of mailing of the international search report

13/09/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 911 675 A (BOSCH GMBH ROBERT) 28 April 1999 (1999-04-28) paragraphs '0031! - '0048!; figures 1,3 -----	1-10
A	US 4 357 061 A (CROSBY JOHN B) 2 November 1982 (1982-11-02) column 2, line 23 - column 4, line 50; figures 1-3 -----	
A	US 6 108 213 A (YAMAMOTO SATORU ET AL) 22 August 2000 (2000-08-22) column 1, lines 10-35 column 3, line 47 - column 4, line 37 -----	
A	US 4 619 431 A (MATSUI KAZUHIRO ET AL) 28 October 1986 (1986-10-28) column 2, lines 25-60; figures 1-3 -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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